Operator's Manual

CRAFTSMAN®

RIDER COOLING SYSTEM

Model No. 132.24607



CAUTION:
Before using this product, read this manual and follow all Safety Rules and Operating Instructions.

- Safety
- Assembly
- Operation
- Maintenance
- Troubleshooting

IMPORTANT: For replacement parts or assembly questions call 800-320-MIST.

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A
www.craftsman.com

TABLE OF CONTENTS

SAFETY

- Always wear safety glasses when operating or installing your riding cooling system.
- Install rider cooling system on your tractor only when engine is cool. Allow engine to cool if recently operated before attempting to install. Installation requires access to the engine compartment of your tractor.
- Disconnect the negative (-) battery cable from your battery prior to installing the rider cooling system on your tractor.
- In the event that another liquid other than DRINKING WATER is used to fill the water tank, immediately drain the contents of the tank and contact customer service regarding steps to take to help determine the usability of your system.
- This rider cooling system is designed to operate with DRINKING WATER ONLY. City water supply, bottled water, and other sources deemed suitable for human consumption will ensure optimal functionality of the system throughout maintenance intervals.
- In the event that gasoline is mistakenly added to the water tank, immediately stop using the cooling system and contact customer service regarding the best way to dispose of your system.

WARRANTY

ONE YEAR FULL WARRANTY

If this Craftsman product fails due to a defect in material or workmanship within one year from the date of purchase, return it to any Sears store or other Craftsman outlet in the United States for free replacement.

This warranty does not include the air or water filter, which are expendable parts that can wear out from normal use within the warranty period.

This warranty applies for only 90 days if this product is ever used for commercial or rental purposes. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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The model number and serial number can be found on the label attached to the back of the power unit.

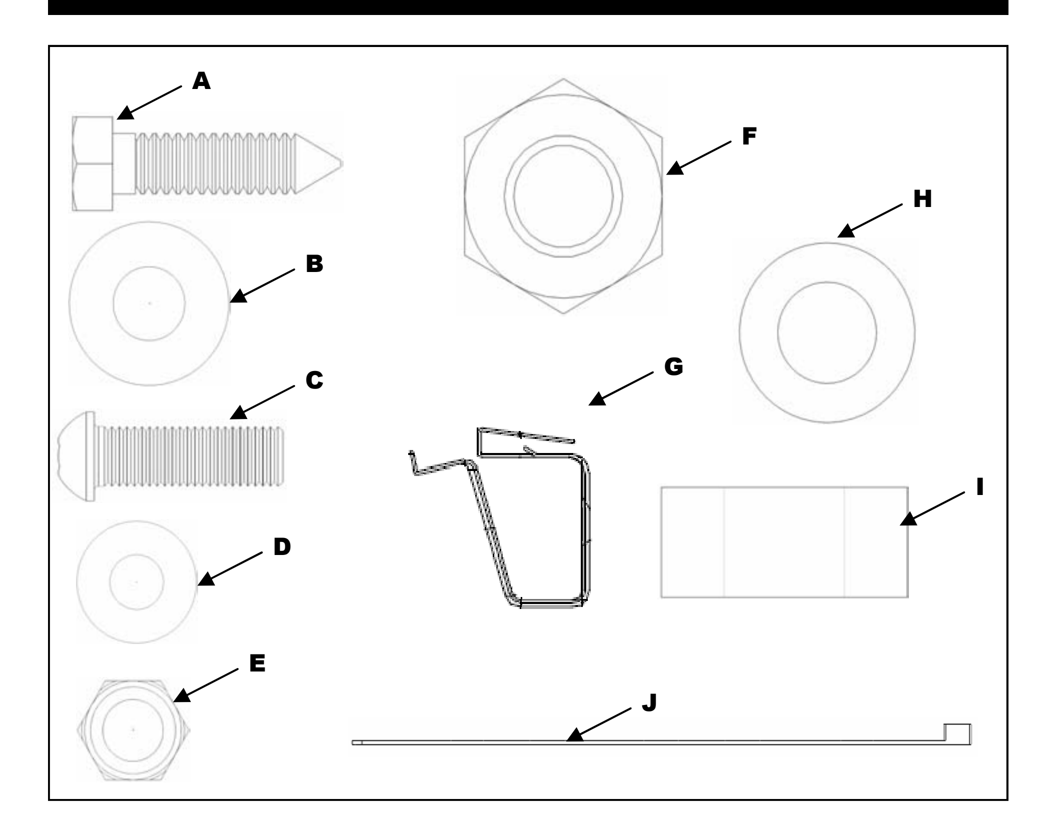
You should record both the serial numbers and the date of purchase and keep in a safe place for future reference.

MODEL NUMBER: 132.24607

SERIAL NUMBER: ________________

DATE OF PURCHASE: ________________

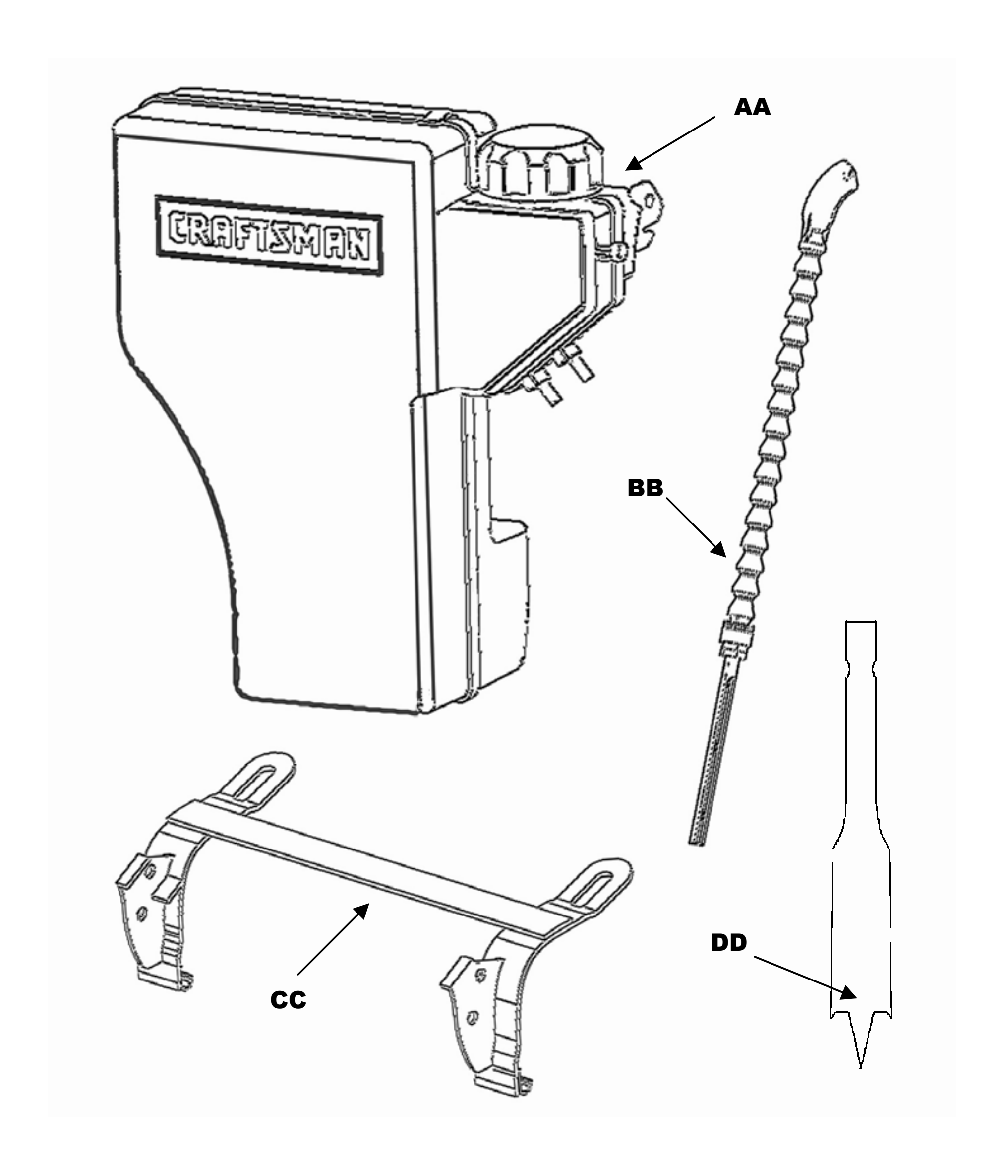
HARDWARE PACKAGE CONTENTS



REF.	QTY.	DESCRIPTION
A	2	Hex Bolt, 5/16”-18 x1-1/4”
B	2	Flat Washer, 7/8” OD
C	4	Cap Screw, 5/16-18” x 3/4”
D	8	Flat Washer, 5/8” OD
E	4	Nylock Nut, 5/16”-18
F	2	Dash Adapter Nuts
G	4	Routing Clips
H	1	Rubber Washer
I	1	Dash Adapter Spacer
J	4	Cable Ties

CARTON CONTENTS

AA. Power Unit
BB. Misting Nozzle Assembly
CC. Mounting Bracket
DD. 9/16” Drill Bit



Tools Required

½" Socket Wrench w/ Extension
Allen Wrenches
Power Drill
Adjustable Wrench

Mounting Power Unit To Tractor

NOTE: If there is a 2 or 3 bin bagger installed on your tractor, you will need to remove the bagger from the tractor before proceeding. Leave the bagger bracket mounted to the vehicle. After cooling system is installed, bagger may be reinstalled.

Step 1

- Raise the tractor seat and remove the seat springs using a ½" socket wrench. Set aside springs. (Save bolts in the event you want to reinstall seat springs without the bracket.)



- Install mounting bracket (CC) by placing hooks of bracket under lip of tractor body. Rotate into position. Slots in bracket should line up with seat spring mounting locations.



- With bracket in place, assemble springs to tractor using the new 5/16" x 1-1/4" bolts (A) and 5/16" flat washers (B) supplied with the cooling system. **Tighten using moderate force. Do not over tighten.**

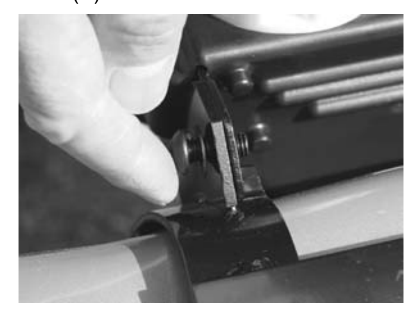


Step 2

- With tractor seat still in the raised position, slide power unit in-between the ears of the mounting bracket. Power unit should rest on alignment tabs.



- Align holes, and attach power unit to mounting bracket using four cap screws (C), eight washers (D), and four nylock nuts (E).



- Once all bolts have been installed, **tighten all nuts using allen wrench and socket on both bolts and nuts.**



- Confirm the installation of all four screws (A) that hold the power unit (AA) to the mounting bracket (CC).



Mounting Misting Nozzle Assembly to Tractor

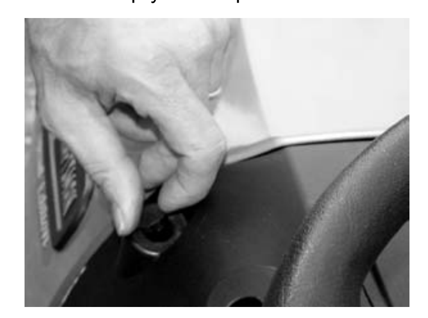
The rider cooling system misting assembly is designed to be installed on the tractor's dash. Some tractors come equipped with rider cooling system mounting locations.
If you do not have a dash with the included mounting locations proceed to **STEP 3b**.



WARNING: Debris that may enter the supply tubes of the climate control system can cause undesirable performance results. Use care completing the remainder of the installation to ensure optimal cooling effectiveness.

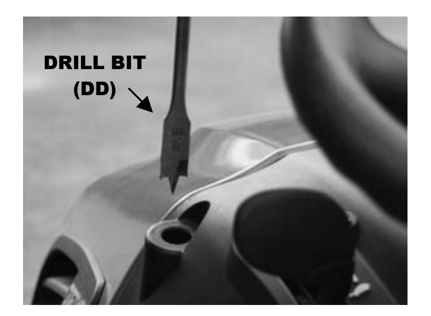
Step 1a (Tractors w/ mounting locations)

- Remove dust cap from rider's left mounting location. A screwdriver may be needed to pry dust cap from dash.



- Open tractor hood and ensure that no wires or cables are located at the bottom of the mounting location. If wires or cables are present, temporarily clear the area by securing them safely away from mounting location using a supplied cable tie (J).

- Using supplied 9/16” drill bit (DD), drill hole through the dash at the bottom of the mounting location. **Use caution not to damage anything in the engine compartment while drilling hole.**



- Proceed to Step 2.

Step 1b (Tractors w/o mounting locations)

- Open tractor hood and ensure that no wires or cables are located at the bottom of potential mounting locations. If wires or cables are present, temporarily clear the area by securing them safely away from mounting location using a supplied cable tie (J).
- Evaluate dash for best location to mount misting arm. Ensure that the chosen location will not limit the functionality of the tractor or interfere with closing of the hood.
- Mark desired location.
- Prior to drilling, take precautions to protect engine compartment from drill shavings.
- Using supplied 9/16” drill bit (DD), drill hole through the dash at the desired mounting location. **Use caution not to damage anything in the engine compartment while drilling hole.**
- Remove drill shavings and clean area surrounding mounting location.
- Proceed to Step 2.

Step 2

- Install rubber washer (H) onto the misting arm assembly (BB), by sliding over hoses and threaded section until seated against mounting flange.



- Feed supply lines of nozzle holder assembly (BB) through hole drilled in step 1 .



- From inside the engine compartment, pull supply lines through hole until the flange of the misting nozzle assembly (BB) is seated on the surface of the dash. Threaded portion of adapter should now extend into the engine compartment at mounting location.



Step 3

IMPORTANT: If you have not already done so, you must disconnect the negative (-) terminal of the battery before completing the next steps.



NOTE: If a hole was drilled in a dash not equipped with mounting locations, ***(Step 1b)*** you will need to slide the dash adapter spacer (I) over hoses of the misting arm assembly (BB) prior to proceeding.



- Slide one dash adapter nut (F) over supply lines and thread onto adapter until seated on the bottom surface of dash. **Tighten using moderate force. Do not over tighten.**



- Repeat with the remaining dash adapter nut (F) until seated on bottom surface of the nut already installed. Use care to ONLY tighten second nut. **Tighten using moderate force. Do not over tighten.**
- The assembly is now secure to the dash of the tractor.

Connecting Power Unit to Misting Arm Assembly

Step 1

- Locate supply lines and power connector at the power unit (AA) and uncoil to full length.



- Starting at the rear of tractor, feed supply lines and connector assembly underneath tractor body along right side of chassis using care to avoid any potential interference with tractor functionality.

IMPORTANT: To ensure lines will not be damaged during tractor use, it is recommended that you follow the exact path of existing electrical supply lines installed on your lawn tractor.



NOTE: Do not install routing clips (G) at this time. The lines are only run to make the connection at this point in the installation. Finalizing installation will occur in subsequent steps.

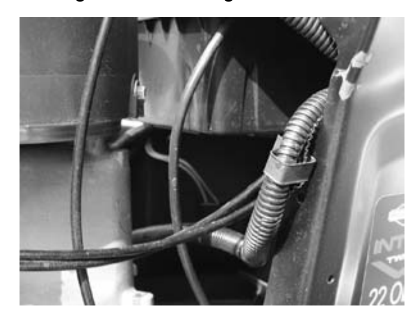
Step 2

- When the supply lines have exited the underside of the tractor body, feed the supply lines and power connector along tractor chassis into engine compartment.

WARNING: Engine components may be hot. Exercise caution when working in engine compartment to avoid personal injury.

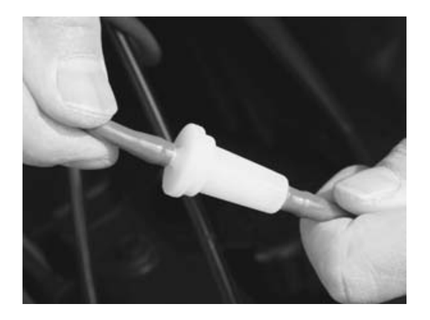


- Continue to feed lines through the engine compartment to the other side of the tractor. Ensure that the supply lines are routed safely away from the engine by routing behind existing cables and wires.



Step 3

- Locate BLACK supply tube from power unit and BLACK supply tube from misting nozzle assembly.
- Remove protective caps from the BLACK supply tube and filter attached to the BLACK tube.
- Connect BLACK supply tube from misting arm assembly to the filter installed on the BLACK supply tube from the power unit. **Continue to push supply tube over the barb on the filter until it rests against the filter body.**



NOTE: The supply tube may be difficult to assembly to the filter body. Wiping the barb with water may facilitate assembly.

- Locate BLUE supply tube from power unit and BLUE supply tube from misting arm assembly.
- Remove protective caps from the BLUE supply tube and filter attached to the BLUE tube.
- Connect BLUE supply tube from misting arm assembly to the filter installed on the BLUE supply tube from the power unit. **Continue to push supply tube over the barb on the filter until it rests against the filter body.**

Connecting Power Unit to Tractor Electrical System

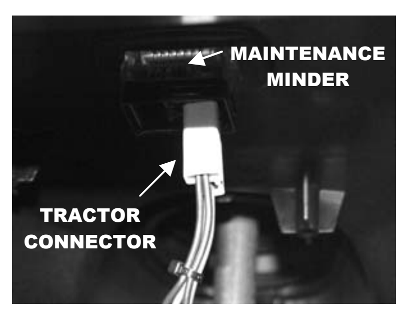
Step 1

- Look on the dash of your tractor and determine whether your tractor is equipped with a Maintenance Minder. If your tractor is not supplied with a Maintenance Minder, proceed to step 12.



Step 2

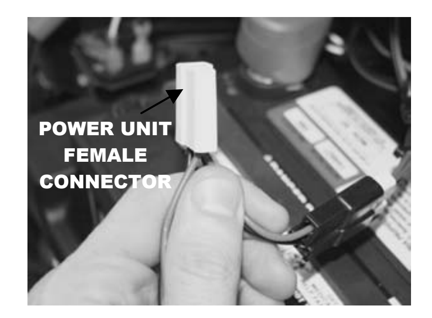
- From inside the engine compartment, locate the underside of the Maintenance Minder.



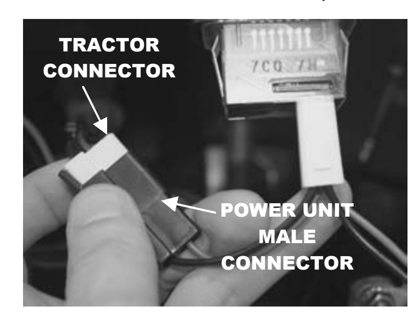
- Disconnect tractor electrical connector from Maintenance Minder.

Step 3

- Connect power unit's female connector to Maintenance Minder.



- Connect power unit male connector to tractor electrical connector just removed from Maintenance Minder in Step 10.

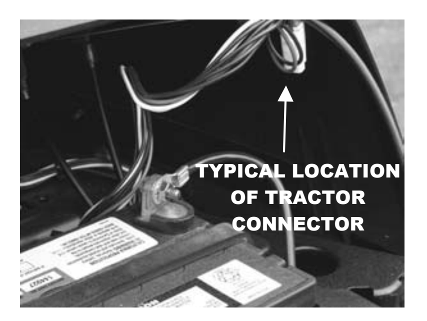


- Proceed to **Finalizing System Installation**.

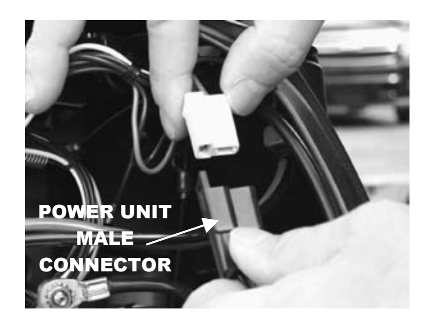
Step 4

- From inside the engine compartment, locate tractor power supply connector.

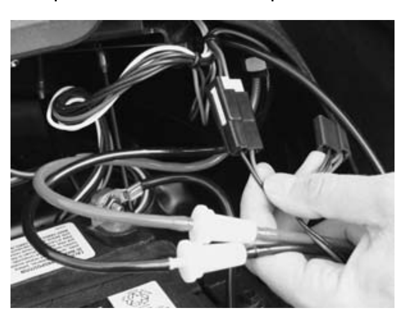
NOTE: The tractor power supply connector will resemble the female connector supplied with the power unit. It will have blue and black wires attached to it.



- Connect power unit's male connector to tractor connector until fully engaged. Locking tab will hold connection together.



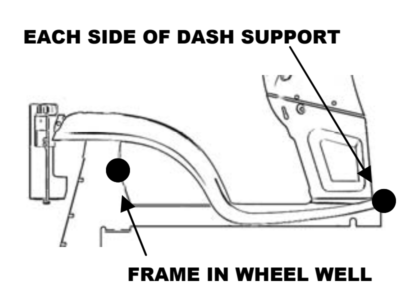
- Verify all connections have been made and proceed to the next steps.



Finalizing System Installation

Step 1

- Review the illustration below to familiarize yourself with the suggested locations of the routing clips (G)

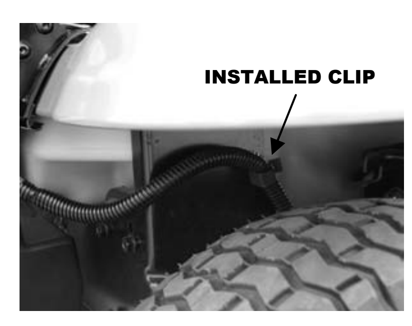


- Install the three (3) routing clips (G) along the length of the supply tubes at the locations shown above. See further instructions below.

NOTE: Once the clip is installed to the supply line, it may be slid along length of supply line to ensure proper attachment to tractor.



- Starting at the rear of the tractor, attach the first clip to the frame inside the rear wheel well.



IMPORTANT: Do not kink hoses exiting the power unit. Leave enough excess for a generous bend in the supply lines when assembling clip to tractor.



- Continue mounting the next clip to the dash support on the right side of the tractor .



- Install final clip on left side of dash support. Pull supply lines through this clip to eliminate excess slack where lines run behind engine so that the lines will not contact hot engine and be damaged.



Step 2

- Using a supplied cable tie (J) organize any excess length of supply tubes and stow behind battery (or along fuel tank if equipped). Secure supply tubes to electrical supply lines of tractor at convenient locations to prevent line damage during tractor operation.



- Using remaining cable ties (J) secure supply tubes to tractor frame along length under tractor body.

IMPORTANT: Use care not to over tighten cable ties (J) and pinch supply lines as system will not function properly. Cable ties are used as a means to route lines safely away from heat and possible pinch points during tractor operation. Following paths of your tractor's electrical supply lines ensures the best possible results.

- Reconnect negative (-) battery terminal to tractor electrical system.



Checklist

Before you operate your rider cooling system, please review the following checklist to ensure that you will obtain the best performance from your system.

- Make sure all assembly instructions have been completed with all bolts and nuts tightened.
- Make sure hose connections at the filters have been made and are fully engaged.
- Make sure electrical connection has been made and is secure.
- Check routing of supply lines and make sure they do not interfere with pedals, pulleys, or belts.
- Check supply lines in engine compartment and ensure they are safely routed away from the engine.
- Check the supply lines as they exit the power unit and ensure the bend is sufficient and does not kink the hoses.
- Check the misting nozzle assembly to ensure it does not interfere with tractor controls.
- Turn tractor key to "ON" position and turn cooling system power unit on.
    - Confirm that the cooling system pump starts.
    - Confirm the flow of air from the cooling nozzle.
    - Open the tractor hood and ensure that filter connections are maintained.

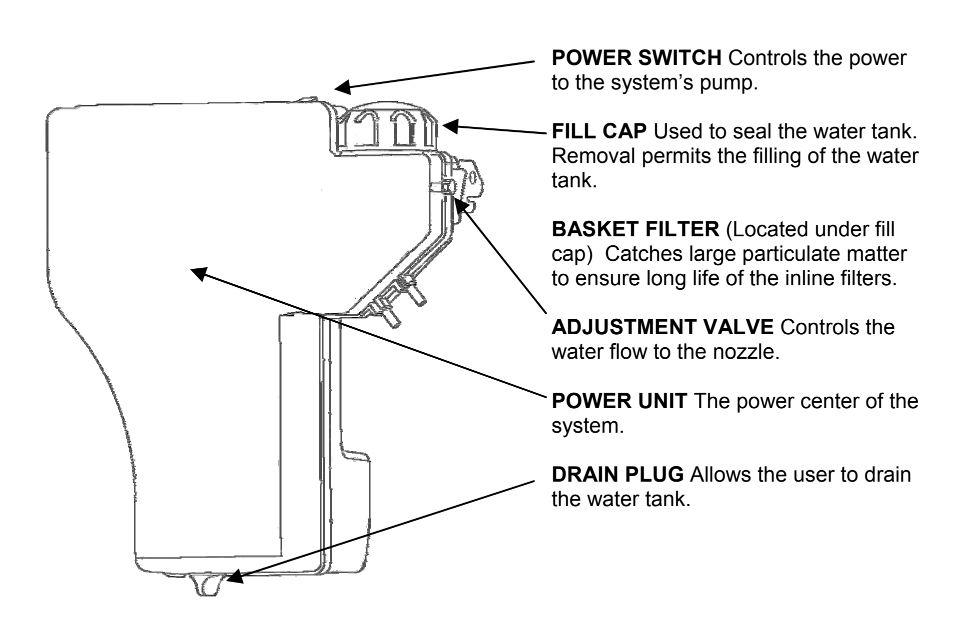
You are now ready to enjoy the benefits of your cooling system .

Proceed to the OPERATION section of this manual to begin using.

KNOW YOUR RIDER COOLING SYSTEM

Read this owner's manual before operating.

Compare the illustration below with your rider cooling system to familiarize yourself with the various features and their locations.



BEFORE STARTING

- Use end of assembly checklist to verify that all instructions have been properly completed.
- Remove fill cap on power unit and fill with DRINKING WATER through the basket filter until tank is filled to approximately 1" below the bottom of the basket filter.
- Add 5 drops of household bleach to the water tank before the first use and every fourth use or once a month (whichever comes first) after that.
- Replace cap and hand tighten. **This is a pressurized system and requires that the cap is sealed.**

IMPORTANT: This unit is designed to operate with DRINKING WATER ONLY.

IMPORTANT: Do not operate rider cooling system with tractor headlights in the ON position. Excessive load on tractor's battery will result in premature drainage.

NOTE: In event that the tank is overfilled, you may experience water streaming from the nozzle. If this occurs, drain excess water from tank and run unit until desired mist is achieved prior to operating tractor.

HOW TO START YOUR RIDER COOLING SYSTEM

- With the tractor key in “ON” position, toggle power switch on unit to “ON” position.

NOTE: It is normal to experience a delay from the time the system is turned on to the delivery of mist from the nozzle. If this exceeds 2 minutes, refer to the troubleshooting section.

HOW TO STOP YOUR RIDER COOLING SYSTEM

- Toggle power switch on unit to “OFF” position.

NOTE: The system will continue to mist after the system is turned off. The system will stop misting after the water and air lines have been cleared.

HOW TO REFILL YOUR RIDER COOLING SYSTEM

- Switch power switch on power unit to the “OFF” position.
- Allow system to vent. **System is ready to fill when air can no longer be heard coming from misting head.**
- Remove fill cap on power unit and fill through basket filter with DRINKING WATER ONLY .
- Replace cap and hand tighten.

ADJUSTING MIST DENSITY

- To optimize the cooling effectiveness of the system, the adjustment valve offers unlimited variation of mist density from closed to fully open.
- To increase the mist density, turn valve counterclockwise.
- To decrease the mist density, turn valve clockwise.
- Once you are satisfied with the setting of your mist density, use the locking nut on the adjustment valve to save your setting.

OPERATING TIPS

- Never use any liquid other than DRINKING WATER in the system.
- For dry climates, increasing the water flow will provide maximum cooling results. In humid climates, a reduced water flow is recommended.
- Adjust the misting nozzle direction to maximize contact with exposed skin during operation.

CUSTOMER RESPONSIBILITIES

- Read and follow the maintenance schedule and the maintenance procedures listed in this section.

MAINTENANCE SCHEDULE Fill in dates as you complete regular service	Before Each Use	After Each Use	Monthly	Every Season		Service Dates								
Check for loose fasteners	X													
Clean Exterior		X												
Empty Water Tank		X												
Clean Basket Filter		X												
Condition Water Tank			X											
Replace Air/Water Filters				X										

EMPTYING WATER TANK

- Place container under drain valve, or have tractor on surface where water can be drained to.
- Remove drain plug by turning counter-clockwise.
- Loosen fill cap.
- Allow tank to drain completely.
- Replace drain plug and hand tighten turning clockwise.

CLEANING BASKET FILTER

- Remove fill cap and remove basket filter.
- Rinse debris from filter with running water.
- Replace basket filter and fill cap.

CONDITIONING WATER TANK

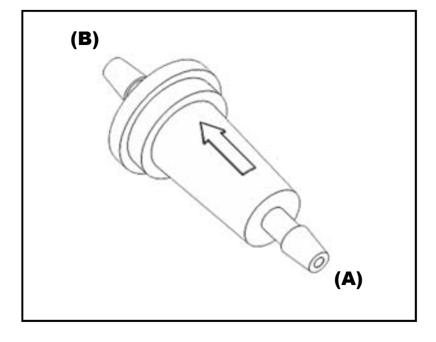
Conditioning the water tank ensures that the cooling system will operate at optimal levels throughout the life of the system. It is suggested that the tank be conditioned at an interval of every 4th filling or once a month; whichever comes first.

- Completely drain water tank. (See Emptying Water Tank)
- Fill tank with DRINKING WATER. Be sure to always fill tank with basket filter in place.
- Add 5 drops of household bleach to water tank.
- Replace cap and hand tighten.
- Run system for 5 minutes with increased water flow.
- The system is conditioned and ready for operation.

REPLACING FILTERS

The filters have been designed to provide optimal system performance by catching any debris that may enter the supply lines throughout use. Annual replacement of both the air and water inline filters ensures the life of your system.

- Open tractor hood and locate the inline filters on the water (blue) supply line.
- Cut water (blue) supply line at each end of filter body.
- Dispose of filter.
- Remove filter from package and orient directional arrow so that the flow direction is towards the misting assembly.



- Push supply line from power unit over filter barb near base of arrow (A) until seated against filter body.
- Push supply line from misting nozzle over filter barb at arrowhead (B) until seated against filter body.
- Repeat steps for air (black) supply lines.

STORAGE

- Empty water tank completely, replace cap, and run system to evacuate all water in supply lines.
- Store misting nozzle assembly by folding over dash of tractor.
- Ensure the power switch on the power unit is in the "OFF" position.
- Clean debris from venting on rear of power unit.
- Clean the power unit thoroughly with mild soap and water.

TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Pump Not Running	1.Switch in OFF Position 2.Tractor Key in OFF Position	1.Toggle Switch to ON Position 2.Tractor Key to ON Position
Unit not Misting	1.Water tank is empty 2.Adjustment valve closed 3.Fill cap not sealed 4.Drain plug not sealed 5.Water filter needs replaced 6.Basket filter missing	1.Fill tank with DRINKING WATER 2.Open adjustment valve 3.Properly seat fill cap 4.Properly seat drain plug 5.Replace water filter 6.Install basket filter
Water streaming from Misting Nozzle	1.Water in air supply lines (Tank Overfull) 2.Adjustment valve setting 3.Air filter needs replaced	1.Drain tank and run system until only air is emitted from nozzle 2.Close adjustment valve 3.Replace air filter
Inconsistent Misting	1.Adjustment valve changing position	1.Adjust valve to desired mist density and tighten locking nut against power unit housing
Water Dripping from Drain Plug	1.Drain plug not seated 2.Drain plug seal is missing or damaged	1.Properly seat drain plug 2.Replace drain plug seal

NOTES:

NOTES:

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